



575
September
2013

HF Happenings

South African Radio League * Suid-Afrikaanse Radioliga
Member Society of the International Amateur Radio Union since 1925
www.sarl.org.za www.iau.org www.iau-r1.org



South African Radio League Launches a Youth Essay Competition

As part of Youth in Amateur Radio Week to be held from 10 - 15 February 2014 the South African Radio League is holding an essay competition with the title "Amateur Radio your gateway to a career in engineering and science. Young people under the age of 20 are invited to explore how amateur radio has shaped the development of radio science and how today amateur radio can be a gateway into an engineering, electronic and science career.

The competition was launched at the Eskom Science Expo for young people held during the past week in Boksburg. The event was a great success and provided good visibility of amateur radio to young people. A full report on the South African Radio League 's participation will be in next week's South African Radio League News and on the web.

Participants will compete in two different age groups with the main prize in each age group a laptop and accessories. The two groups are under 15 years and between 16 and 20 years old.

Length of the Essay: between 800 and 1200 words, Language: any of South Africa's official languages. Closing date: 28 February 2014. Entries must be in a word format and submitted by email to youthweek2014@sarl.org.za.

The winning entry in each category will be presented with his/her award at the annual South African Radio League Convention to be held in Pretoria on 12 April 2014. There will be 10 runners up prizes in each category and every person submitting an essay will be awarded a certificate. For more details and links to resource material will be available from 6 October on www.hamradio.org.za.

Solar Cycle Puzzles

Predictions that 2013 would see an upsurge in solar activity and geomagnetic storms have proved to be a false alarm. Instead, the current peak in solar cycle 24 is among the weakest for a century. Amateur Radio Newline's Stephan Kinford, N8WB, takes a look at what scientists are saying: Subdued solar activity has prompted controversial comparisons with the Maunder Minimum. The Maunder Minimum, also known as the prolonged sunspot minimum, is the name used for the period starting in about 1645 and continuing to about 1715 when sunspots became exceedingly rare, as noted by solar observers of the time. These minimums supposedly coincided with the coldest period in the last millennium.

But Giuliana DeToma, a solar scientist at the High Altitude Observatory in Colorado says that the unusually low number of sunspots in recent years is not an

Have **YOU** done anything today to Promote **Amateur Radio?**

October

1 - Schools open
3 - SARL 80 metre QSO Party
3 to 6 - Hobby-X, Midrand
5 - Spring QRP Contest
5 and 6 - RSGB 21/28 MHz Contest
12 and 13 - AWA AM and SSB Contest
16 - Bosses Day
17 - Radio Amateur Examination
19 - CQ Hou Koers
19 and 20 - Jamboree-on-the-Air
26 and 27 - CQ WW DX Phone Contest

November

2 - RaDAR Contest
10 - Remembrance Sunday; PEARS HF Contest
11 - Armistice Day
16 and 17 - SARL National Field Day
23 and 24 - CQ WW DX CW Contest

The photo in last week's HF Happening was taken of the main pyramid at Chichen Itza, Yucatan, Mexico



Current Summits-on-the-Air (SOTA) activities are announced at

www.sotawatch.org

And more SOTA information can be found at www.sota.org.uk



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indication that we are going into a Maunder Minimum, but added that researchers do not know how or why the Maunder Minimum started. As such, they really cannot predict the next one.

Other solar experts think the downturn is linked to a different phenomenon called the Gleissberg cycle. The Gleissberg cycle, named after Wolfgang Gleissberg, is thought to be an amplitude modulation of the 11-year Schwabe Cycle which predicts a period of weaker solar activity every century or so. If that turns out to be true, the sun could remain unusually quiet through the middle of the 2020s. However, as scientists still do not fully understand why the Gleissberg cycle takes place, the evidence is, at best, inconclusive. The vagaries of solar cycles remain.

African DX



Botswana DXpedition cancelled! Donovan, ZS2DL, who was expected to lead a team of amateur radio operators in April of 2014 to Botswana, has announced, "It is with tremendous disappointment, that we have had to cancel the A22D trip in April 2014. The main reason for this has been the breakdown of sponsorship from one of the main Japanese manufacturer of Radio equipment. These negotiations have been on going for nearly a year now, and business must be bad as we simply could not reach a workable solution. As a result we have no alternative but to cancel the A22D adventure. Please accept our most sincere apologies, but promise to be back from somewhere else soon, maybe even more sought after than A2."

Togo, 5V. Wim, ON4CIT, will once again be active as 5V7TH from Togo (Grid Square JJ06rf) sometime in November and December. Activity will be on 40-6 meters, including the 30, 17 and 12 metre bands, using CW, SSB and RTTY. He plans to be on in the evening on 40 and 30 metres. Wim mentions that he will travel during the day to Benin to collect his TY1 call sign papers which is supposed to be ready. During that same day, he will try to search for a nice QTH in Grand Popo (Benin) for his TY1 DXpedition and move from Togo to Grand Popo, Benin, when everything is sorted out. QSL via his home call sign, direct (2 USDs/EU and 3 USDs/US), by the Bureau, LoTW (uploaded year later) or by the ClubLog's OQRS. For more details, visit <http://www.dxpediton.be/5V7TH.html>

Burkina Faso, XT. Harald, DF2WO, will be active as XT2AW from Ouagadougou between the last week of January and the end February 2014. Activity will be holiday style on CW and SSB. QSL via MOOXO.

African Islands



Mayotte, FH. Operators Silvano, I2YSB, Vinicio, IK2CIO, Angelo, IK2CKR, Marcello, IK2DIA, Stefano, IK2HKT, Alberto, IZ2AXF, and Mac, JA3USA, all members of the Italian Dxpediton Team, will operate from 3 to 17 October as TO2TT from Mayotte. They are supported by their pilots Fred, IK7JWY (HF) and Sergi, IK0FTA (6 m). They will be active on 160-6m in CW, SSB, and RTTY with 4 stations, equipped with amplifiers, beam antennas, lowband verticals, and a long wire for 160. Preferred frequencies: CW: 1 835, 3 535, 7 031, 10 118, 14 035, 18 068, 21 035, 24 900, 28 035, and 50 102 kHz SSB: 3 780, 7 103, 14 260, 18 155, 21 310, 24 975, 28 420, and 50 123 kHz RTTY: 14 087 kHz. QSL via IK2CIO (B), I2YSB (d, OQRS), LoTW. www.i2ysb.com and http://win.i2ysb.com/logonline/default.asp?ID_dxpediton=32

Cape Verde, D4. Operators Babs, DL7AFS, and Lot, DJ7ZG, will be active as D44TXT from the Island of Santiago (AF-005) between 19 October and 7 November. Operations will be near Praia, the capital town, and from a rented private house. Lot informs that the license was very difficult to obtain, and took over 10 months to get it. Originally, the DXpedition was planned for the spring of 2013. Activity will be on 80 - 10 metres using RTTY, PSK63 and SSB. If they have a great opening on 6 meters, they will be on air. With their baggage being

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limited, they will have 2 stations: 2 x Elecraft K2 with 2 x 600 W PA and 1 x FT857 for 6 m; Data Interface "IF one" from "Funkamateur Magazine" and data programs -MixW and WinTest; Triple Leg antennas and dipoles. QSL via LoTW, direct or by the Bureau.

Reunion Islands, FR/TO2. Stephane, F5UOW, will once again be active from Reunion Island (AF-016). He will sign as FR/F5UOW between 31 October and 21 November, but between 3 and 17 November, he will sign TO2R. His activity will be mostly CW between 40 - 10 meters. QSL via F5UOW, direct or by the Bureau.

Madagascar, 5R. Eric, F6ICX, will once again be active as 5R8IC from Saint Marie Island (AF-090) between 16 November and 15 December. Activity will be holiday style operating CW, RTTY, and PSK63 and using a FT450 with 100 watts into various GPs or Inverted-Ls and a Hexbeam for 20 - 10 metres. There will be no online log during his activity. QSL via his home call sign (QRZ.com).

Contest Calendar

This week's contests compiled by Bruce Horn, WA7BNM. The period covered is 23 to 30 September 2013

German Telegraphy Contest

07:00 - 09:59 UTC 3 October

Mode: CW

Bands: 80, 40 m

Classes: QRP; LP; HP; SWL

Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts

Exchange: DL: RST and LDK; non-DL: RST

Work stations: Once per band

QSO Points: 1 point per QSO; 2 points per QSO with club station of sponsoring club (see rules)

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 31 October 2013

E-mail logs to: dtc@kontest.de

Mail logs to: Wolfgang Schwarz, DK9VZ, In den Bleichwiesen 7, D-65779 Kelkheim, Germany

Find rules at: http://kontest.de/dtc/DTC-Rules_e.pdf

SARL 80 m QSO Party

17:00 - 20:00 UTC 3 October

Mode: SSB

Bands: 80 m Only

Classes: Single Op

Exchange: RS, serial no and Grid Locator or QTH

QSO Points: 10 points per QSO with South African station; 15 points per QSO with non-South African station

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 11 October 2013

E-mail logs to: zs5lp@vodamail.co.za

Mail logs to: Durban ARC, 17 Brownlee Place, Bluff, Durban 4052, South Africa

Find rules at: http://www.sarl.org.za/Documents/SARL_Contest_Manual_2013_Issue_11.pdf

NRAU 10m Activity Contest

17:00 - 18:00 UTC 3 October (CW) and 18:00 - 19:00 UTC 3 October (SSB) and 19:00 - 20:00 UTC 3 October (FM) and 20:00 - 21:00 UTC 3 October (Dig)

Mode: CW, SSB, FM, Digital

Bands: 10 m Only

Classes: (none)

Exchange: RS(T) and 6-character grid square

QSO Points: (see rules)

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 17 October 2013

Upload log at: http://ua9qcq.com/contests/submit_log_eng.php

Mail logs to: (none)

Find rules at: <http://www.nrau.net/activity-contests/below-30mhz.html>

NCCC Sprint

02:30 - 03:00 UTC 4 October

Mode: (see rules)

Bands: (see rules)

Classes: (none)

Exchange: (see rules)

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 6 October 2013

E-mail logs to: (none)

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Post log summary at: <http://www.3830scores.com/>

Mail logs to: (none)

Find rules at: <http://www.ncccsprint.com/rules.html>

YLRL DX/NA YL Anniversary Contest

14:00 UTC 4 October to 02:00 UTC 6 October

Mode: CW, SSB, Digital

Bands: Any

Classes: (none)

Max operating hours: 24

Exchange: Serial NO, RS(T) and ARRL Section, province or country

Work stations: Once per band

QSO Points: W/VE Stations: 1 point per W/VE QSO;

W/VE Stations: 2 points per DX QSO; DX Stations: 1 point per QSO with same continent; DX Stations: 2 points per QSO with different continent

Multipliers: Each section, province, country once

Power factor: x 1,5 for 5 - 100 W; Power factor: x 3 for 5 W or less

Score Calculation: Total score = total QSO points x total mults x power factor

Submit logs by: 4 November 2013

E-mail logs to: kc8pky2004@sbcglobal.net

Mail logs to: Linda Metz, KC8PKY, 7626 Dacosta, Detroit, MI 48129, USA

Find rules at: <http://www.ylrl.org/index.php/contests-and-dx-awards>

15-Metre SSTV Dash Contest

00:00 UTC 5 October to 23:59 UTC 6 October

Mode: SSTV

Bands: 15 m Only

Classes: Single Op - QRP, low or high; Multi-Single

Max power: HP: >150 watts; LP: 150 watts; QRP: 10 watts

Exchange: WSSTVC-Member: RSV, "W" and 4-digit member no; non-Members: RSV and serial no

QSO Points: 1 point per QSO with same country; 3 points per QSO with different country same continent; 5 points per QSO with different continent

Multipliers: Each country once; Each WSSTVC member once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 21 October 2013

E-mail logs to: (none)

Upload log at: <http://contests.wsstvc.org/submit-log/cabrillo/>

Mail logs to: (none)

Find rules at: <http://contests.wsstvc.org/rules/>

TARA PSK Rumble Contest

00:00 - 24:00 UTC 5 October

Mode: PSK

Bands: 160, 80, 40, 20, 15, 10, 6 m

Classes: Normal (100 W); Great (20 W); Super (5 W); SWL

Exchange: W/VE/JA/VK: Name and Call Area; Other: Name and Country

Work stations: Once per band

QSO Points: 1 point per QSO

Multipliers: Each country once per band; Each W/VE/JA/VK call area once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 2 November 2013

E-mail logs to: (none)

Post log summary at: http://www.n2ty.org/seasons/tara_rumble_score.html

Mail logs to: (none)

Find rules at: http://www.n2ty.org/seasons/tara_rumble_rules.html

EPC Russia DX Contest

04:00 UTC 5 October to 03:59 UTC 6 October

Mode: BPSK63

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op All Bands; Single Op Low Bands; Single Op High Bands; Multi-Op

Max power: 100 watts

Exchange: EPC-RU Members: EPC-RU Member no and 4-character grid square; non-Members: QSO no and 4-character grid square

QSO Points: (see rules)

Multipliers: Each DXCC country once per band; Each grid square once per band; Each oblast once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 11 October 2013

Upload log at: http://ua9qcq.com/en/submit_log.php?lang=en

Mail logs to: (none)

Find rules at: http://www.epc-ru.ru/index.php?option=com_content&task=view&id=351&Itemid=113

Oceania DX Phone Contest

08:00 UTC 5 October to 08:00 UTC 6 October

Mode: Phone

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op All Band - low or high

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Single Op Single Band - low or high

Multi-One; Multi-Two; Multi-Multi; SWL

Max power: HP: 1 500 watts; LP: 100 watts

Exchange: RS and Serial no

Work stations: Once per band

QSO Points: 20 points per 160 m QSO; 10 points per 80 m QSO; 5 points per 40 m QSO; 1 point per 20 m QSO; 2 points per 15 m QSO; 3 points per 10 m QSO

Multipliers: Each prefix once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 31 October 2013

E-mail logs to: ph@oceaniadxcontest.com

Web-to-Cabrillo form: http://www.b4h.net/cabforms/oceaniadxssb_cab.php

Mail logs to: Oceania DX Contest, PO Box 21088, Little Lonsdale Street, Victoria 8011, Australia

Find rules at: <http://www.oceaniadxcontest.com/rules.pdf>

GTC CW Cup

12:00 UTC 5 October to 12:00 UTC 6 October

Mode: CW

Bands: 80, 40, 20, 15, 10 m

Classes: Single Op; Single Op QRP

Max power: non-QRP: >5 watts; QRP: 5 watts

Exchange: GTC Members: RST, "GTC" and 3-digit member number; non-GTC: RST and "NM"

Work stations: Once per band

QSO Points: 100 points per QSO with SZ15V; 10 points per QSO with GTC members; 5 points per QSO with non-members

Multipliers: Each GTC member once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 30 October 2013

E-mail logs to: sv5dkl@rho.forthnet.gr

Mail logs to: Efsthios Maliakis, SV5DKL, 2, G. Georgiadi str., GR-85100, Analipsi, Rhodes, Greece

Find rules at: <http://www.raag.org/displayITM1.asp?ITMID=504&LANG=EN>

TRC DX Contest

12:00 UTC 5 October to 12:00 UTC 6 October

Mode: CW, SSB

Bands: 80, 40, 20, 15, 10 m

Classes: Single Op All Band - CW, SSB or mixed - low or high; Single Op All Band QRP; Single Op 3 Band - low or high; Single Op Single Band - low or high; Multi-Single

Max power: HP: >100 W; LP: 100 W; QRP: 5 W

Exchange: TRC Members: RST and "TRC"; non-TRC Members: RST and ITU Zone no

Work stations: Once per mode per band

QSO Points: 10 points per QSO with TRC member; 1 point per QSO with non-TRC member; 1 point per QSO between TRC members

Multipliers: Each ITU zone once per band; Each country once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 13 October 2013

E-mail logs to: trcdxc@trcdx.org

Upload log at: <http://ua9qcq.com/contests/robot.php>

Mail logs to: Atanas Kolev, PO Box 49, 6100 Kazanlak, Bulgaria

Find rules at: http://www.trcdx.org/html_ham/english/contest.html

WAB HF Phone

12:00 UTC 5 October to 12:00 UTC 6 October

Mode: Phone

Bands: 20, 15, 10 m

Classes: Single Op (Fixed/Mobile/Portable); Multi-Op (Fixed/Mobile/Portable); QRP; SWL (Fixed/Mobile/Portable)

Max power: non-QRP: >10 watts; QRP: 10 watts

Exchange: British Isles: RS, serial no and WAB square; Other: RS, serial no and country

QSO Points: (see rules)

Multipliers: (see rules)

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 27 October 2013

E-mail logs to: aebbooks@ntlworld.com

Mail logs to: Tony Beardsley, G3XKT, 14 York Avenue, Sandiacre, Nottingham NG10 5HB, United Kingdom

Find rules at: <http://wab.intermip.net/Contest%20Rules.php#HFRules>

EU Autumn SSB Sprint

16:00 UTC-19:59 UTC 5 October

Mode: SSB

Bands: 80, 40, 20 m

Classes: Single Op - low or high

Max power: HP: >100 W; LP: 100 W

Exchange: your call sign, other station's call sign, serial no and name

Work stations: Once per band

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

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Submit logs by: 20 October 2013

E-mail logs to: eusprint@kkn.net

Mail logs to: Dave Lawley, G4BUO, Carramore, Coldharbour Road, Penshurst, Kent TN11 8EX, England

Find rules at: <http://www.eu-sprint.com/index.php?page=140&lang=g>

California QSO Party

16:00 UTC 5 October to 22:00 UTC 6 October

Mode: CW, Phone

Bands: 160, 80, 40, 20, 15, 10, 6, 2 m

Classes: Single Op - QRP, low or high - fixed, county expedition, mobile, school, YL, youth or new-contester; Multi-Single - QRP, low or high - fixed, county expedition, mobile, school, YL, youth or new-contester; Multi-Multi - QRP, low or high - fixed, county expedition, mobile, school, YL, youth or new-contester

Max operating hours: 24 hours for single ops with 15 minute off times; 30 hours for multi-ops

Max power: HP: >200 watts; LP: 200 watts; QRP: 5 watts

Exchange: CA: Serial no and county; non-CA: Serial no and state, VE area or country

Work stations: Once per mode per band per county

QSO Points: 2 points per phone QSO; 3 points per CW QSO

Multipliers: CA Stations: States, VE areas once; non-CA Stations: CA counties once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 31 October 2013

E-mail logs to: (see rules, web upload preferred)

Upload log at: <http://www.cqp.org/logsubmit-form.html>

Mail logs to: NCCC, c/o Alan Eshleman, K6SRZ, 210 Nila Mae Way, Penngrove, CA 94951, USA

Find rules at: <http://www.cqp.org/Rules.html>

International HELL-Contest

16:00 - 18:00 UTC 5 October (80 m) and 09:00 - 11:00 UTC 6 October (40 m)

Mode: Hell

Bands: 80, 40 m

Classes: Single Op; SWL

Exchange: RST and QSO no

QSO Points: 1 point per QSO; 1 point per QTC

Multipliers: Each WAE/DXCC country once; Each JA/W/VE call area once

Score Calculation: Total score = (total QSO points and total QTC points) x total mults

Submit logs by: 20 October 2013

E-mail logs to: do1npf@darcd.de

Mail logs to: Peter Frank, DO1NPF, Postfach 11 19, 90515 Altdorf, Germany

Find rules at: <http://www.darc.de/de/referate/ukw-funksport/hf-hell-wettbewerb/teilnahmebedingungen/>

UBA ON SSB Contest

06:00 - 10:00 UTC 6 October

Mode: SSB

Bands: 80 m Only

Classes: (none)

Exchange: ON: RS, serial no and ON Section; non-ON: RS and serial no

QSO Points: 3 points per QSO with Belgian station

Multipliers: Each UBA Section

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 27 October 2013

E-mail logs to: ubaon@uba.be

Mail logs to: Welters Leon, ON5WL, Borgstraat 80, B-2580 Beerzel, Belgium

Find rules at: <http://www.uba.be/en/hf/contest-rules/on-contest>

RSGB 21/28 MHz Contest

07:00 - 19:00 UTC 6 October

Mode: CW, SSB

Bands: 15, 10 m

Classes: Open - single op or multi-op - UK or Overseas - CW, SSB or mixed; Restricted - single op or multi-op - UK or Overseas - CW, SSB or mixed; QRP - single op or multi-op - UK or Overseas - CW, SSB or mixed

SWL (UK/Overseas)

Max power: Restricted: 100 watts; QRP: 10 watts

Exchange: UK: RS(T), serial no and UK District Code; non-UK: RS(T) and serial no

Work stations: Once per band per mode

QSO Points: UK Stations: 3 points per QSO with overseas stations; Overseas Stations: 3 points per QSO with UK stations

Multipliers: UK Stations: Each DXCC country once per band per mode (JA, W, VE, VK, ZL and ZS call areas count as countries); Overseas Stations: Each UK district once per band per mode

Score Calculation: Total score = total QSO points x total mults

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Be surprised by the World of Amateur Radio

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Submit logs by: 21 October 2013

Upload log at: [http://www.rsgbcc.org/](http://www.rsgbcc.org/cgi-bin/hfenter.pl)

[cgi-bin/hfenter.pl](http://www.rsgbcc.org/cgi-bin/hfenter.pl)

Mail logs to: RSGB-G3UFY, 77 Bensham Manor Road, Thornton Heath, Surrey CR7 7AF, England

Find rules at: <http://www.rsgbcc.org/hf/rules/2013/r2128.shtml>

Next weeks contests

ARS Spartan Sprint, 01:00 - 03:00 UTC 8 October
NAQCC Straight Key/Bug Sprint, 00:30 - 02:30 UTC 9 October
CWops Mini-CWT Test, 13:00 - 14:00 UTC 9 October; 19:00 - 20:00 UTC 9 October and 03:00 - 04:00 UTC 10 October
RSGB 80 m Club Sprint, CW, 19:00 - 20:00 UTC 9 October
10-10 Int. 10-10 Day Sprint, 00:01 - 23:59 UTC 10 October
NCCC RTTY Sprint Ladder, 01:30 - 02:00 UTC 11 October
NCCC Sprint, 02:30 - 03:00 UTC 11 October
Makrothen RTTY Contest, 00:00 - 07:59 UTC 12 October, 16:00 - 23:59 UTC 12 October and 08:00 UTC-15:59 UTC 13 October
Oceania DX Contest, CW, 08:00 UTC 12 October to 08:00 UTC 13 October
SKCC Weekend Sprintathon, 12:00 UTC 12 October to 24:00 UTC 13 October
Scandinavian Activity Contest, SSB, 12:00 UTC 12 October to 12:00 UTC 13 October
QRP ARCI Fall QSO Party, 12:00 UTC 12 October to 24:00 UTC 13 October
EU Autumn Sprint, CW, 16:00 - 19:59 UTC 12 October
Arizona QSO Party, 16:00 UTC 12 October to 06:00 UTC 13 October and 14:00 - 23:59 UTC 13 October
Pennsylvania QSO Party, 16:00 UTC 12 October to 05:00 UTC 13 October and 13:00 - 22:00 UTC 13 October
FISTS Fall Sprint, 17:00 - 21:00 UTC 12 October
PODXS 070 Club 160 m Great Pumpkin Sprint, 20:00 local 12 October to 02:00 local 13 October
North American Sprint, RTTY, 00:00 - 04:00 UTC 13 October
UBA ON Contest, CW, 06:00 - 09:00 UTC 13 October

History This Week for the week starting 30 September

1452 First printed book published, Johann Guttenberg's Bible
1608 Hans Lippershey offers Dutch gov't a new invention, the telescope
1846 Dr William Thomas Green Morton first public use of ether.
1859 Lismore Post Office was opened.
1889 Thomas Edison shows his first motion picture
1906 The second international conference on wireless telegraphy in Berlin adopted "SOS" as the international distress signal, replacing the call sign CQD.
1908 Henry Ford introduces the Model T car (costs \$825)
1913 US Federal Income Tax signed into law (at 1%) (Oh wish!!)
1927 "Jazz Singer," first movie with a sound track, premieres (NYC)
1952 First video recording on magnetic tape, LA, Ca

Items used with acknowledgement to The ARRL Letter, Amateur Radio Newslines, OPDX Bulletin, 425 DX Bulletin, DXNL Bulletin, ARRL DX News, WIA-News, the RSGB News and Southgate ARC News